PTO/SB/21 (09-04) Approved for use through 07/31/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/701,412 Filing Date TRANSMITTAL 10/31/2003 First Named Inventor **FORM** Debra R. Reinhart Art Unit **Examiner Name** Katherine W. Mitchell (to be used for all correspondence after initial filing) Attorney Docket Number KSC-12246-2 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC **/** Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information Provisional Application After Final Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer **Extension of Time Request** below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Signature Printed name RANDALL M. HEALD, PATENT COUNSEL Date Reg. No. MAY 10, 2005 28.561 **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Date MAY 10, 2005 CAROL ANNE DUNN, PARALEGAL SPECIALIST Typed or printed name

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (12-04v2) Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE rk Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Effective on 12/08/2004. ees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). Application Number 10/701,412 **TRANSMITTA** Filing Date 10/31/2003 For FY 2005 Debra R. Reinhart First Named Inventor **Examiner Name** 3677 Applicant claims small entity status. See 37 CFR 1.27 Art Unit Katherine W. Mitchell TOTAL AMOUNT OF PAYMENT 120 KSC-12246-2 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Check Credit Card None Money Order Other (please identify): Deposit Account Name: RANDALL M. HEALD Deposit Account Deposit Account Number: 14-0116 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) ✓ Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES SEARCH FEES EXAMINATION FEES** Small Entity **Small Entity Small Entity** Fees Paid (\$) **Application Type** Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 500 200 150 250 100 200 130 Design 100 100 65 50 Plant 200 100 300 150 160 80 300 150 500 250 600 300 Reissue 200 0 **Provisional** 0 100 0 0 **Small Entity** 2. EXCESS CLAIM FEES Fee (\$) Fee (\$) Fee Description 50 Each claim over 20 (including Reissues) 200 100 Each independent claim over 3 (including Reissues) 360 180 Multiple dependent claims ultiple Dependent Claims Fee (\$) Fee Paid (\$)

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Mı
20 or HP)= X		_=	<u>F</u>
HP = highest number of total claims paid for, if greater than 20.				
Indep. Claims	Extra Claims	<u>Fee (\$)</u>	Fee Paid (\$)	
3 or HP	=x		=	
HP = highest number of it	ndependent claims paid	for, if greater th	an 3.	

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Sheets of fraction thereof. See 53 U.S.C. 41(a)(1)(d) and 37 CFR 1.10(s).

Total Sheets

- 100 = | Fee (\$) | Fee (\$) |

- 100 = | (round up to a whole number) | x | = | |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1.17(a)(1) Extension of time for 1 month

SUBMITTED BY

Signature Registration No. (Attorney/Agent) 28,561 Telephone 321-867-7214

Name (Print/Type) RANDALL M. HEALD Date 05/10/2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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